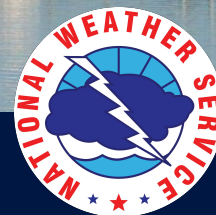
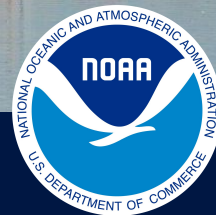




PACIFEX 26

A tsunami warning demonstration for
U.S. and Canadian Pacific Coasts

ntwc@noaa.gov



National Oceanic and Atmospheric Administration
National Tsunami Warning Center
tsunami.gov

Who is PACIFEX 26 for?



NTWC serves Federal & State partners who serve their local communities and coastlines



NORTH
AMERICAN
PACIFIC COASTAL
PARTNERS

Alaska
Canada
Washington
Oregon
California

Who is PACIFEX 26 for?



NTWC serves community members & organizations who want to practice tsunami response



Register your participation at
TsunamiZone.org

- Logs your exercise participation
- Shares annual exercise and awareness activities
- Links to partner resources

Home TsunamiZone Regions Other Languages Contact Us Search Login

The **TsunamiZone**

Register Here Know Your Zone Who is Participating? How to Participate? Resources News & Events Partners & Sponsors

Alert Status from tsunami.gov

No Tsunami Warning, Advisory, Watch, or Threat

WELCOME TO THE TSUNAMIZONE!

Everyone, everywhere should know how to be prepared for tsunamis and what to do to be safe. This is true for people who live or work near the ocean, but also for anyone who may visit someday. Are you in the Zone?

TsunamiZone.org provides [suggestions](#) and [resources](#) for your family or organization to "know your zone" and to [learn](#) how to be safe.

Be counted among people and organizations worldwide by [registering](#) your 2025 tsunami preparedness activities!

ESPAÑOL
FRANÇAIS

Are You in the Zone?
#TsunamiReady
Find Out: TsunamiZone.org

OFFICIAL ACTIVITIES (2025)

March 20
[CARIBE WAVE 2025](#)

March 22 – 30
[California's Tsunami Preparedness Week](#)

March 23 – 29
[Alaska's Tsunami Preparedness Week](#)

April
[Hawaii's Tsunami Awareness Month](#)

April 6-12
[British Columbia Tsunami Preparedness Week](#)

May 6
[Pacifex 2025](#)

November 5
[World Tsunami Awareness Day](#)
[Lantex 2025](#)

[View and Submit Local Events](#)

Sign up & Login to NWSchat

Private NWS Event Response channel for Tsunami:
nws-tsunami-pacific-partners

Use for:

- Real time communication with NWS and Partners
- Decision support with and for state and local partners

1. Register at

<https://partnerservices.nws.noaa.gov/registration/>

2. Must be approved NWS office and added to NTWC partner channel prior to event/exercise.

- Only for event response partners of the NWS

3. Once approved, send a direct message in Slack to **@NWS- NTWC - Dave Snider**, NTWC Tsunami Warning Coordinator saying “Add me to the Pacific partner’s room for PACIFEX”



NWS Partner Key

Register your account

Personal Information

First Name or Nickname

Last Name

Job Title

Organization Information

Organization Name

Sector

Area of Responsibility

40 characters max

Business or Agency Address

Address Line 1

Address Line 2

City

State

Postal/ZIP

Country

Phone

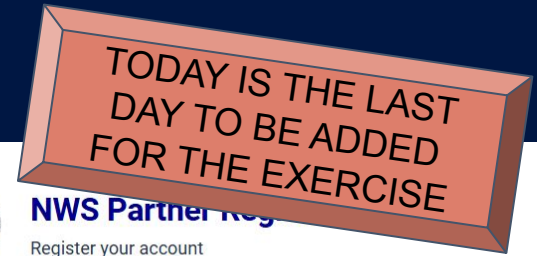
Phone Number

Extension

Allow text messages to this phone

Submit

Cancel



Tuesday May 5th: PACIFEX26 Live Exercise



Supporting tsunami preparedness by addressing the following:

- Tsunami coastal hazard, inundation mapping, and evacuation routes
- Maritime hazard, guidance, and best practices
- NTWC alerts, operational process, and event timelines
- NTWC IDSS and communication channels (Bulletins, Event Briefings, NWSChat)

Highlights:

- Realistic timing for all messages, forecasts, observations, and IDSS products.
- Four hours of live play.
- Event briefings on Google Meet, hosted by NTWC.
- Ongoing live support for partners in the dedicated NWSChat channel:
nws-tsunami-pacific-partners.

May 5th: 8am AKDT / 9am PDT



1. First message emailed at 08:05am AKDT / 09:05am PDT
2. Bulletins with alert area graphics sent via EMAIL and posted to SLACK
3. Segmented messages to support NOAA Weather Radio practice and TEX files for State Operations .
4. Ongoing live Decision Support - bring your questions!
5. Four live conference calls / event briefings
 - a. New Event Briefings are now on Google Meet / Dial-in
 - b. Direct feedback after conference calls via Slack
 - c. Final Event Briefing includes a quick exercise hotwash



Exercise Timeline


Condensing 24 hrs of a tsunami scenario time

Into 4 hrs of Real Time exercise

▶▶ 2 Fast Forwards

To cover downgrading and cancellation



 6 NTWC Alert Messages

 4 Conference Calls (Google Meet / Phone)

Immediate post-brief partner survey

 NWSchat use throughout exercise

Master Timeline in Participant Handbook

REAL TIME [AKDT] on clock	REAL TIME [PDT] on the clock	Occurrence/ Event /Information
8:00	9:00	----- EXERCISE START -----
8:00	9:00	Major earthquake occurs in the Cascadia Subduction Zone, preliminary M8.3 Epicenter = [45.67° N, 124.82° W], Depth = 12 km depth of water = ~1500-2000 meters
8:05	9:05	B#1: TSUNAMI WARNING -> Pt. Conception, CA to BC/AK Border (including the inner waterways) ADVISORY-> BC/AK Border to Unimak Pass, AK All other coastlines / still being evaluated
8:10	9:10	Tsunami detected: DART 46404, 46407 
8:16	9:16	 Port Orford - 3.09 meters
8:15	9:15	Magnitude continues to rise, ~ M8.7
8:24	9:24	30 cm observed on DART 46404 (the forecast for an M8.3) and is still rising
8:30	9:30	Notify for Event Briefing (NOAK#1)
8:33	9:33	USGS upgrades to M8.8 and CMT confirms thrust faulting mechanism
8:35	9:35	(expand the Advisory following procedures for M8.8) B#2: TSUNAMI WARNING -> Pt. Conception, CA to BC/AK Border ADVISORY-> All other coastlines

Participant Handbook and Bulletin Books

PACIFEX26 Participant Handbook

Exercise PACIFEX26



Participant Handbook

M8.8 Cascadia

A Tsunami Warning Exercise
for the
U.S. and Canadian Pacific Coast

May 5, 2026

Master Timeline in Participant Handbook

REAL TIME [AKDT] on clock	REAL TIME [PDT] on the clock	Occurrence/ Event /Information
8:00	9:00	----- EXERCISE START -----
8:00	9:00	Major earthquake occurs in the Cascadia Subduction Zone, preliminary M8.3 Epicenter = [45.67° N, 124.82° W], Depth = 12 km depth of water = ~1500-2000 meters
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PACIFEX26 Exercise Bulletins

1

Bulletin Booklet in English: NTWC PACIFEX26 Exercise Messages

The following messages were created for the PACIFEX26 tsunami exercise. They are public messages and do not contain codes or text intended for automated systems, but are representative of the official standard products issued by the NTWC during a tsunami event. During a real event, the NTWC would also issue graphical and html-based products to the web site and via RSS.

NTWC Bulletin #1

WEAK51 PAAQ 051605
TSUAK1

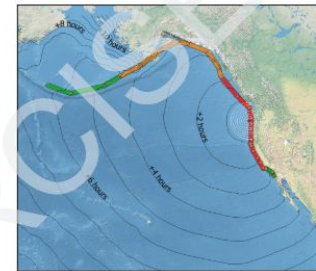
BULLETIN
Public Tsunami Message Number 1
NWS National Tsunami Warning Center
Palmer AK
905 AM EDT Tue May 5 2026

...A TSUNAMI WARNING IS NOW IN EFFECT...

...A TSUNAMI ADVISORY IS NOW IN EFFECT...

Tsunami Warning in Effect for:

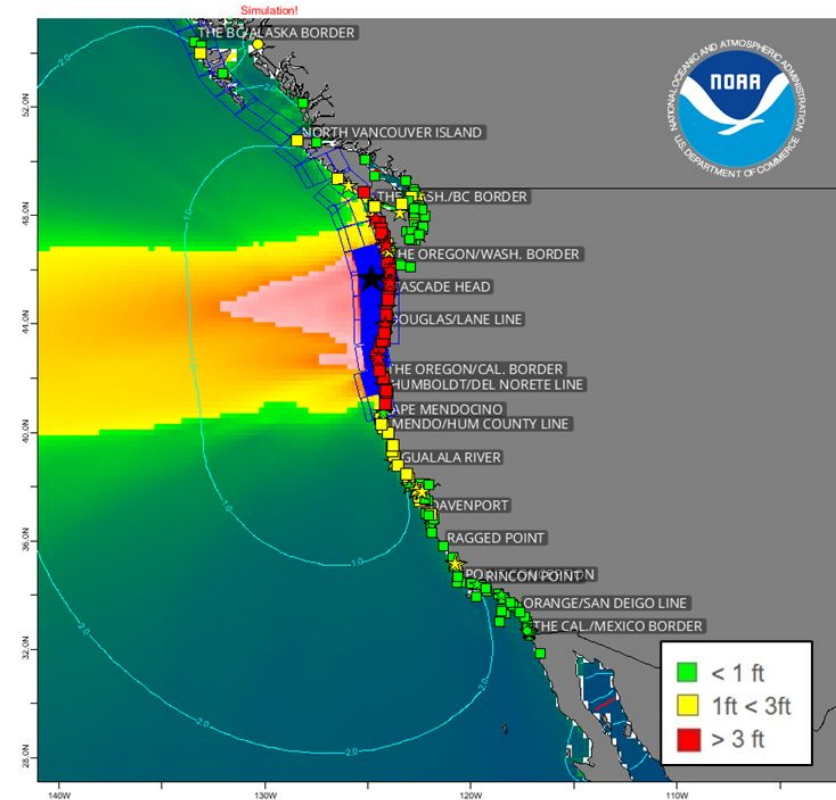
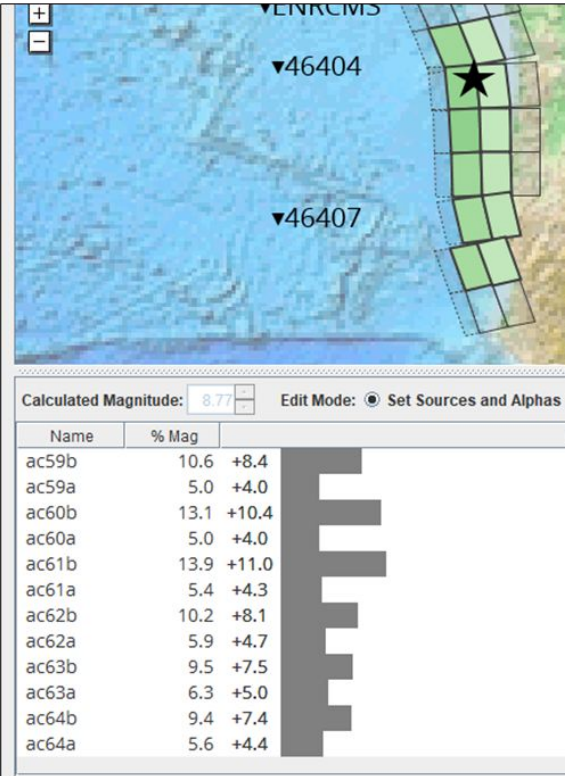
- * CALIFORNIA, The coast from Point Conception, California to The Oregon/Cal. Border including San Francisco Bay
- * OREGON, The coast from The Oregon/Cal. Border to The Oregon/Wash. Border including the Columbia River estuary coast
- * WASHINGTON, Outer coast from the Oregon/Washington Border to Slip Point, Columbia River estuary coast, the Juan de Fuca Strait coast, and the coastal waters of Puget Sound



PACIFEX26 - Source in Cascadia Subduction Zone

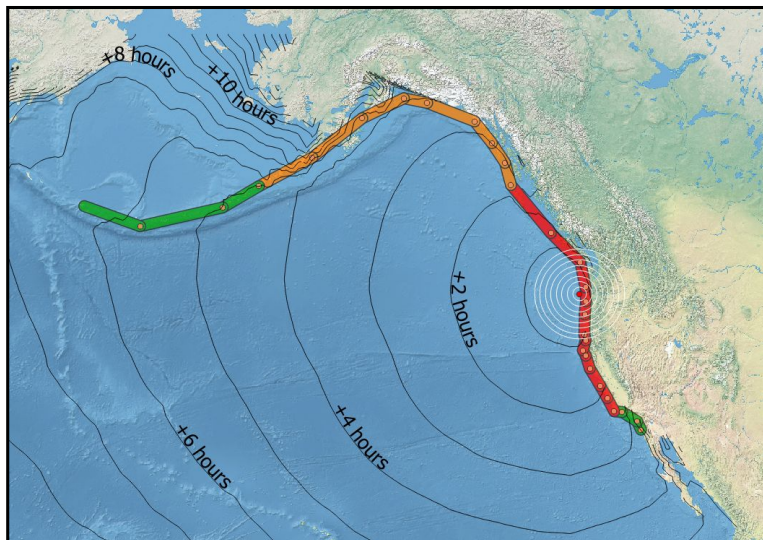
(left) Tsunami modeled source blocks, each 100 x 50 km, showing the percent of the magnitude represented by the modeled slip, and with the majority of the slip seaward of the epicenter.

(right) Tsunami propagation and modeled maximum amplitude using the Short-term Inundation Forecasting for Tsunamis (SIFT) system, source boxes shaded in blue.



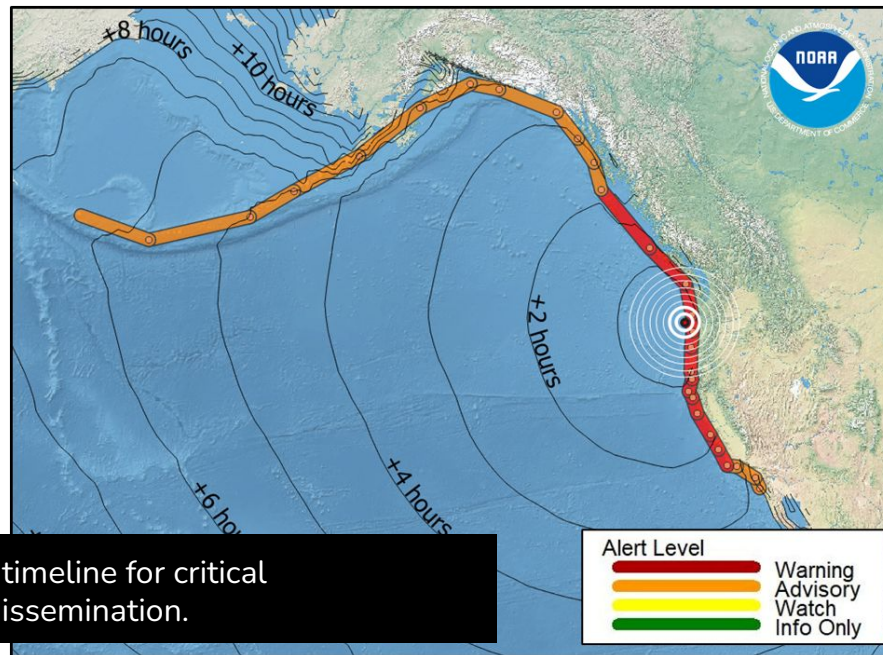
PACIFEX26 - Scenario: M8.8, Cascadia Subduction Zone

M8.3 Bulletin #1: Time + 5 min



Immediate warning-level response -> demanding timeline for critical decision-making, calls to action, and information dissemination.

M8.8 Bulletin #2: Time + 35 min

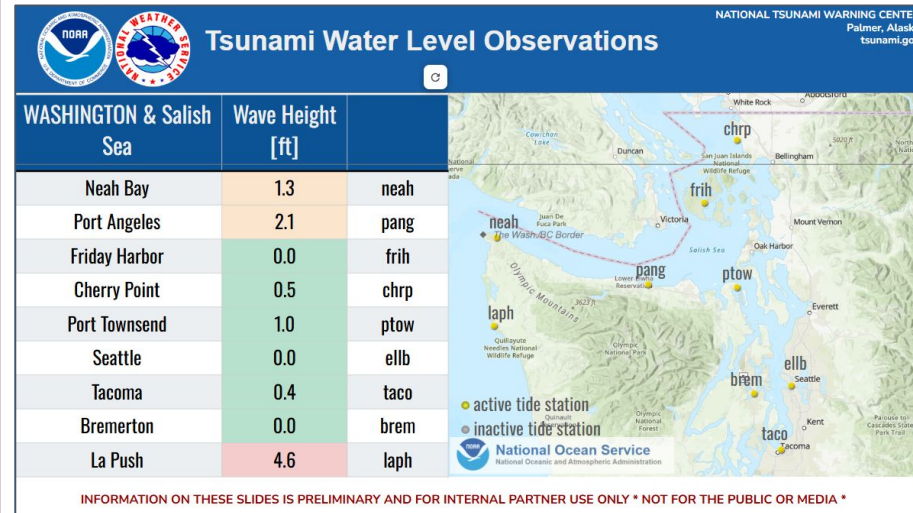
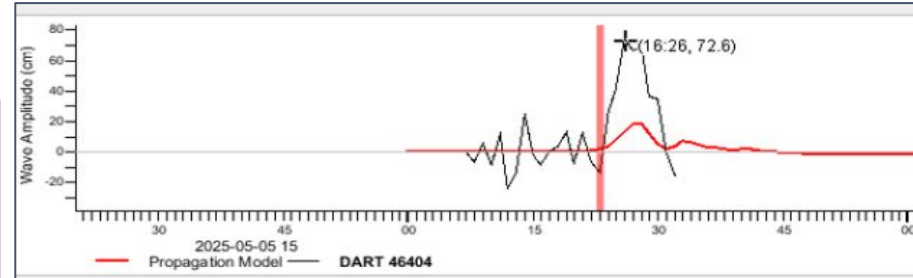
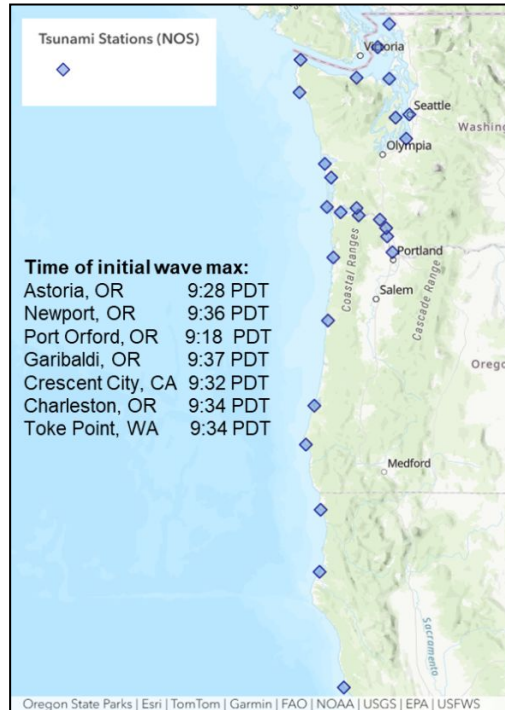


PACIFEX26 - Scenario: M8.8, Cascadia Subduction Zone

Within the first hour, data from multiple offshore DART sensors and coastal tide gauges will be utilized to accurately forecast and assess the tsunami threat.

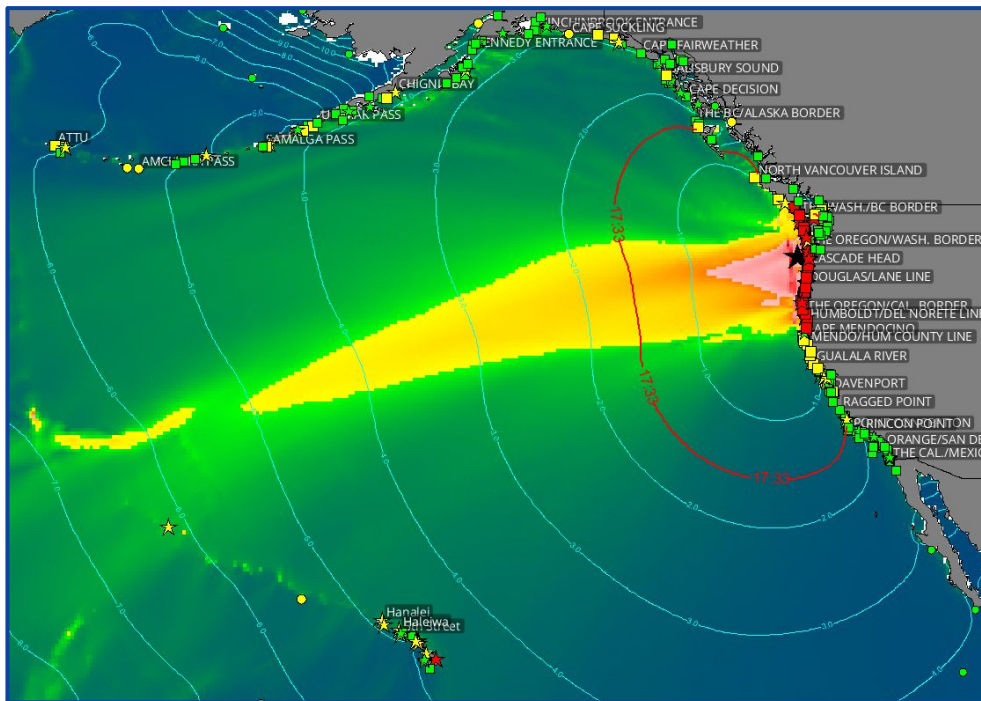
NTWC staff will deliver real-time IDSS, leveraging our dedicated NWSChat channel on Slack and Event Briefing webinars.

Time + 60 min

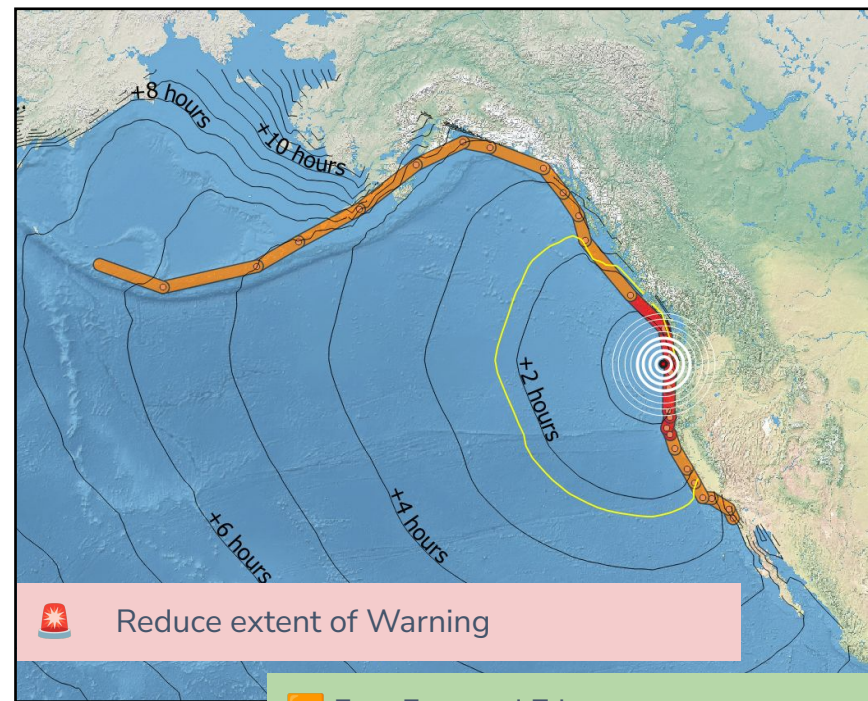


PACIFEX26 - Scenario: M8.8, Cascadia Subduction Zone

Tsunami Forecast with 2 DARTs: Time + 1:30 hours



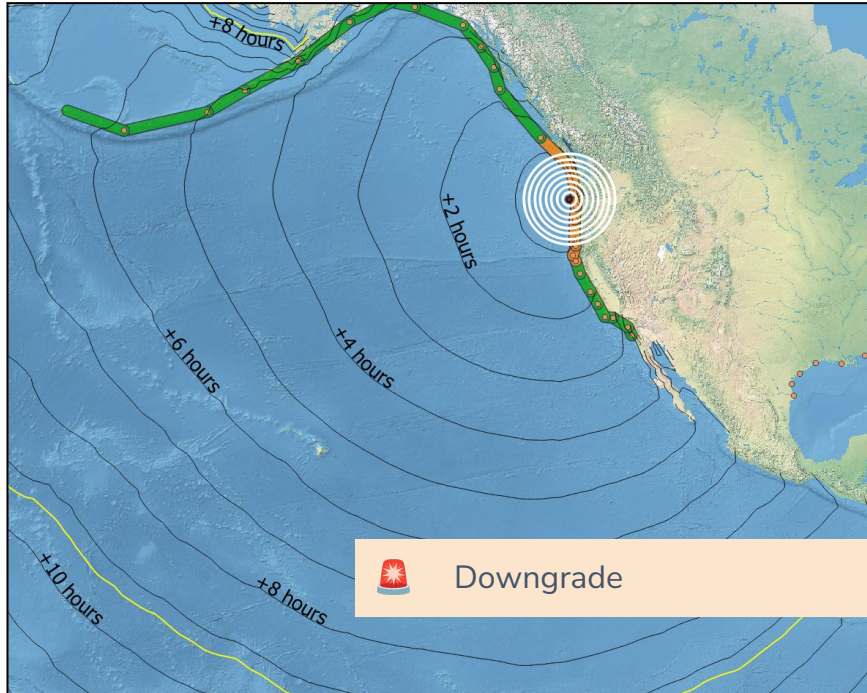
Bulletin #4: Time + 2:15 hours



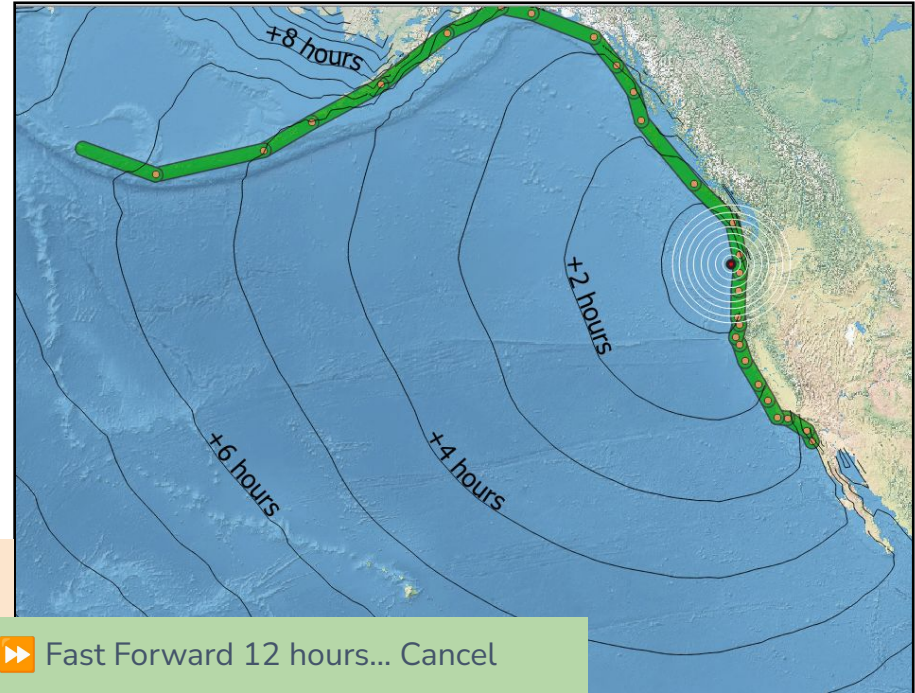
▶ Fast Forward 7 hours

PACIFEX26 - Scenario: M8.8, Cascadia Subduction Zone

Bulletin #11: Time + 9:15 hours



Bulletin #24: Time + 23:15 hours



Continuous IDSS support on Slack

nws-tsunami-pacific-partners

Please bring your questions

- Local hazard
- Expected impacts
- Timing for arrival
- Impacts with tidal oscillations
- Inundation expectations
- Tsunami currents
- Maritime hazard
- When we will know more
- Anything else to support your decision making process



NTWC practicing tsunami response, LANTEX24

Top-of-the-hour Event Briefings held on Google Meet

Video link and Phone # joining info will always be in NWSChat.

Normally for NWS, Federal, and State agencies only.

PACIFEX26 will allow a peek under the hood.



- **Passcode will be changed after the exercise - DO NOT SAVE**
- Roll call will include only required Federal and State Partners.
 - U.S. National Weather Service WFOs,
 - State Warning Points,
 - Emergency Management and Climate Readiness (EMCR)-British Columbia
 - USCG Districts & US Navy
- On polling, participants are encouraged to:
 - Ask any questions that haven't otherwise been covered on Slack, etc.
 - Briefly share any relevant information they've received (damage reports, etc.)
 - Consider real-world impacts and updates you require.



NTWC practicing tsunami response, PACIFEX25

Food for thought



NTWC practicing tsunami response, PACIFEX25

- How well does the message wording support your understanding of the event and your response, particularly for the inner waterways in the State of Washington and British Columbia?
- Are the appropriate actions for the tsunami alert supported by messaging and alerting systems?
- What tsunami.gov information and supplemental information on NWSchat would be helpful to support your operation?
- How can NTWC and its partners improve support of your decision making?

Post-exercise

Partner Survey

- Capture critical feedback to improve event response and partner needs
- Help select date and source for next year
- Provide suggestions for improving logistics



Final preparations

- Ensure your organization's response and exercise team has the correct contacts added to the exercise email list
- Sign up on Slack, login, and be familiar with the platform
- Register or refine your activities on TsunamiZone.org
- Ask questions
- Have fun and learn something new





TSUNAMI
WARNING CENTER

NTWC Contacts

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